

### **ABSTRACT OF THE DISCLOSURE**

A thermally conductive paste including porous agglomerates of carbon particles dispersed in a paste-forming vehicle is disclosed. The paste is useful as a thermally conductive interface material between a heat or cold source and an object. The paste is particularly useful as a thermally conductive interface material between a heat source and a heat sink. Apparatus and a method of removing heat from a heat source utilizing thermally conductive pastes of the present invention are also disclosed.